

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently amended): A printer comprising:

a print head for making reciprocating motion transversely with respect to a recording medium to thereby perform both forward printing and backward printing on the recording medium;

a misalignment correction unit for correcting misalignment between the forward printing and the backward printing;

a setting unit for setting a correction reference value for the misalignment correction unit;

a first temperature detection unit for detecting an ambient temperature of the printer as a first temperature when setting the correction reference value by the setting unit;

a second temperature detection unit for detecting an ambient temperature of the printer as a second temperature when performing the printing by the printer;

a correction reference value storage unit for storing the correction reference value set by the setting unit;

a first temperature storage unit for storing the first temperature detected by the first temperature detection unit;

and,

a calculation unit for calculating a misalignment correction value by revising the correction reference value read out from the correction reference value storage unit on the basis of a result of comparison between the first temperature read out from the first temperature storage unit and the second temperature detected by the second temperature detection unit;

wherein the misalignment correction unit corrects misalignment on the basis of the misalignment correction value calculated by the calculation unit;

wherein the correction reference value storage unit stores a temperature subrange table on which consecutive numbers are assigned to the temperature subranges obtained by dividing an available temperature range of the printer unequally such that a lower temperature subrange is narrower than a higher temperature subrange, and as a result, unequal divisions of the temperature range allow an accumulated amount of misalignment in one temperature subrange to be substantially equal to that in another temperature subrange.

Claim 2 (Currently amended): The printer as claimed in claim 1, ~~wherein the correction reference value storage unit stores a temperature subrange table on which consecutive numbers for indicating temperature subranges respectively are assigned~~

~~to the temperature subranges obtained by dividing an available temperature range of the printer on the basis of the amount of misalignment at each temperature in such a manner that a temperature subrange larger in the amount of misalignment is narrower than a temperature subrange smaller in the amount of misalignment; and~~

————the calculation unit refers to the temperature subrange table[[,]] and decides a temperature subrange including the second temperature detected by the second temperature detection unit and calculates the misalignment correction value by revising the correction reference value on the basis of a difference between a number stored in the first temperature storage unit and indicating a temperature subrange including the first temperature and a number indicating a temperature subrange including the second temperature.

Claim 3 (Currently amended): A print control method for correcting misalignment between forward printing and backward printing when a print head makes reciprocating motion transversely with respect to a recording medium to thereby perform both the forward printing and the backward printing on the recording medium, the method comprising the steps of:

providing a setting mode for setting a correction reference value for correcting the misalignment;

storing the set correction reference value and an ambient temperature of a printer as a first temperature at the time of setting of the correction reference value; and

calculating a misalignment correction value by revising the correction reference value on the basis of a result of comparison between the first temperature and an ambient temperature of the printer at the time of printing as a second temperature to thereby correct misalignment on the basis of the calculated misalignment correction value,

wherein the correction reference value is chosen from a temperature subrange table comprising a list of consecutive numbers assigned to temperature subranges which are obtained by dividing an available temperature range of the printer unequally such that a lower temperature subrange is narrower than a higher temperature subrange, and as a result, unequal divisions of the temperature range allow an accumulated amount of misalignment in one temperature subrange to be substantially equal to that in another temperature subrange.